HX-38

DWL Start

STATINTL

24 May 1961

STATINTL

Post Office Box 1407 Main Post Office Washington 13, D. C.

Gentlemen:

Enclosed herewith are four (4) copies of the status report of technical progress on the photographic rectifier for the month of May, 1961.

A copy of the report is being submitted directly to the Contracting Officer.

Very truly yours,

cc: Contracting Officer

Declass Review by NIMA/DOD

Approved For Release 2002/06/17: CIA-RDP78B04747A000600080002-6 PHOTOGRAPHIC RECTIFIER - PRINTER

Report of Technical Progress

I. Progress During April, 1961

Electrical and mechanical assembly has proceeded smoothly during the month. Checkout on unit 2 has not been as rapid as planned partly because of continued testing on unit 1. Assembly of units 3 and 4 has been on schedule. The quantity of electrical assembly has been very high during this period due to improved assembly techniques, training aids and greater technician proficiency through familiarity.

Trouble Areas

Initial checkout of the new EECO tape reader indicates a high electrical noise output. We are maintaining close liaison with the factory engineers and the combined technical effort should result in a satisfactory unit.

This tape reader was chosen because of superior construction of the reading head over the CTI tape reader in unit 1. A definite fix will be necessary by the end of May to insure early delivery of unit 2.

II. Anticipated Progress During May

- Unit 1 Further testing will be required to complete the dodging circuitry and to keep the unit ready for component testing.
- Unit 2 Component testing will be completed and system testing started. Completion of system tests will not be possible until the tape reader is available.
- Unit 3 Wiring and component assembly will be completed and testing will commence.
- Unit 4 Mechanical assembly of major structures will be complete.

Another systems test area will be completed during the month to facilitate the checkout of units 3 and 4. It will be possible to do systems testing with at least 2 units with the new facilities.

| | STATINTL |
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| | |
| Project Engineer | |

JVS:kp

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| · · [| Pre-design | Design | Release | Purchase Parts | Fabrication | Assembly | |
|--|------------|-----------|------------|-------------------|-------------|----------|----------------------|
| Structure | | Complete | | Complete | Complete | 3 | Complete In work |
| CRT Housing | | t i | | . 11 | . (1 | 3 | Complete |
| CRT Elect. Parts | | It | | less CR tub | | 2 | Complete |
| Track Assy., X Drive Lead Screw Valve, Pheu. & | · | tt | | Complete | !! | 3 | Complete |
| Vacuum | | 11 | Complete | 11 | ti . | | Complete |
| Doors | · | t t | 11 | 11 | 11 | | Complete |
| Focus Current Regulator | Complete | 11. | , rr | II. | ŧŧ | | Complete |
| X Deflection Ampf. | 11 | 11 | 11 | \$1 | 11 | 3 | Complete |
| Y Deflection Ampl. | 11 | tt | ſŢ | 11 | 11 | 3 | Complete |
| X Drive Assembly | 11 | 11 | 11 | tt | Lt: | 3 | Complete |
| Film Index Lens Board | 11 | 11 | f t 1 t | 11 | 11 | 3 | Complete Complete |
| Platen | 11 | τι | 11 | ti - | i i | | Complete |
| Casettes | Ιt | £1 | 11 | r) | 11 | 6 | Complete |
| Vacuum Pump | | | | Lt · | | | Complete |
| Power Supply 20 KV | 11 | ti | . (1 | 11 | • [1 | 3 | Complete |
| Power Supply 90 V | 11 | ţţ | 11 | t 1 | 11 | | Complete |
| Program Relay Control | t 1 | ξΙ | r I | 11 | t i | | Complete |
| Gurley Disc Assy. | 11 . | , tt | 11 . | 11 | 11 | 3 | Complete |
| Check Pulse Transistor Amp | 11 | f i | 11 | Lt. | 11 | | Complete |
| HiFreq. Xsistor Amp | 11 | 11 | t i | f 1 | 11 | | Complete |
| Check Pulse Separator | 11 | tr . | 11 | | 11 | | Complete |
| Sweep Linearizer | 11 | 11 | 11 | ti . | 1 Complete | 1 | Complete |
| CRT Control | 11 | 11 | 11 | t.; | Complete | 3 | Complete |
| Dynamic Focus | 11 | 75% Comp. | | | 1 Complete | J | Comprete |
| Cables (internal) | ft . | Complete | t t | 11 | 3 Complete | 2 I | Complete In work |
| | L | <u> </u> | <u></u> | | | | |

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|--------------------------------------|--------------------------|-----------------|------------------------------|-------------------|-------------|-------------------------|
| · | Pre-Design | Design | Release | Purchase Parts | Fabrication | Assembly |
| Structure | Complete | Complete | Complete | Complete | Complete | 3 Complete 1 In work |
| CRT Housing | *1 | rr . | ŗ, | 11 | Complete | 3 Complete |
| CRT Elect. Parts | 11 | 11 | | Complete | 2 Complete | 2 Complete |
| Track Assy., X Drive Lead Screw | 11 | 11 | Tr | Comprete | | 3 Complete |
| Valve, Pneu. & Vacuum | 11 | 1 тт | rr | Complete | *1 | Complete |
| Doors | (1 | fi | ΓŢ | t I | 11 | In work |
| Focus Current Regulator | 11 | 11 | rı | 11 | tt | 2 Complete Complete |
| X Deflection Amp. | 11 | 11 | rı. | 11 | 11 | 3 Complete |
| Y Deflection Amp. | 11 | t i | 11 | 11 | . 11 | 3 Complete |
| X Sweep Attenuator | 11 | ri | rr | ţţ | tt | 3 Complete |
| Y Sweep Attenuator Power Supply 20KV | 11 | i ! | t i | ** | 11 | 3 Complete |
| Tower Supply Long | | | \ '' | 11 | 11 | 3 Complete |
| Power Supply 1KV | 11 | 11 | 11 | T f | וז בר | Complete |
| PMT Drive & Servo | 11 | , 11 | rr | ff | ŧτ | Complete |
| Platen & Index Assy | 11 | 11 | rT | r r | 2 Complete | 3 Complete |
| Film Index Drive | | | | | | |
| & Servo | 11 | rı | FT | 17 | Complete | 3 Complete |
| PM Assy. & Video Amplifier | 1.1 | 11 | 1.1 | rı | Complete | Complete |
| Optisyn Pre-Amp | 11 | Lt | rı | 1.7 | 11 | tr |
| Check Pulse Transistor Amp | 11 | 11 | | | - | |
| 1143015to1 11111p | 4 | '' | !' | rı | 11 | 1! |
| Dodging Commutator | ,, | 11 | rr | тт | l Complete | l Complete |
| Sweep Linearizer | r1 | ri - | £1 | ŧi : | l Complete | 1 Complete |
| CRT Control | 1.1 | 1.1 | rı | t t | Complete | 3 Complete |
| Dynamic Focus | | 75% Compl. | r I | 11 | 1 Complete | 1 Complete |
| Cables (Internal) | t ! | Complete | r i | 11 | 3 Complete | 2 Complete |
| Αį | bproved For R | elease 2002/06/ | I <mark>7 : CIA-</mark> RDP7 | 8B04747A0006 | 00080002-6 | l In work |

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PHASE DIAGRAM FOR CONSOLE

| | Pre-design | Design | Release | Purchase Parts | Fabrication | |
|---------------------|------------|----------|----------|-------------------|-------------|----------------------|
| Y Index Register | Complete | Complete | Complete | | ! | n Assembly |
| Monitor Scope | 11 | 11 | Complete | Complete | Complete | 3 Complete |
| Video Control | | rr | | 11 | Complete | 3 Complete |
| Sweep Generator | 11 | | | 11 | TI TI | 3 Complete |
| Power Control | [1 | | | 41 | 2 Complete | 3 Complete |
| Program Control | | rr | Complete | tt | 2 Complete | 3Complete |
| Power Supply 125V | 11 | rr | rr | | Complete | 3Complete |
| i | 11 | r r | rr | 11 | 11 | |
| Power Supply + 300V | " | 11 | rr | 71 | Complet | Complete |
| Scan Servo | 11 | 11 | FI | | Complete | 3Complete |
| Scan Comparator | ti | t t | 11 | *** | Complete | 3Complete |
| Scan Computer | TI . | TI . | | F1 | tt | 3Complete |
| Tape Reader | 11 | rr | rr . | Γſ | Γſ | 2 Complete |
| Power Supply 6.3V | 11 | | | rr. | 2 Complete | Complete - |
| Transportage | 31 | 4 11 | rr | (1 | Complete | 6 Complete |
| | 11 | TT . | | rr | rr ; | Complete |
| Power Supply 28V | 11 | FI | T.I | 11 | | |
| Cables (internal) | | | 11 | 1 | 11 | 3 Complete |
| Rack | 11 | LF | | , | 3 Complete | 2 Complete 1 In work |
| Power Supply +300V | 11 | | 7.1 | LL . | . ~ | 3 Complete |
| FF-y 1300 V | 11 | tı 1 | | TT. | | 3 Complete |